STIC Search Report
EIC 2100

TO: Laurel Lashley
Location: RND 2A34
Art Unit : 2132
Wednesday, July 20, 2005

Case Serial Number: 10/049844

From: David Holloway
Location: EIC 2100
RND 4B19
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Search Notes

Dear Examiner Lashley,

Attached please find your search results for above-referenced case.
Please contact me if you have any questions or would like a re-focused search.

David

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Set      Items    Description
S1       101685   PACKET? OR DATAGRAM? OR IP OR TCP
S2       1748535  NUMBER? OR NUMERAL? OR DATA()ELEMENT? OR IDENTIFIER? OR ID
                  OR LABEL? OR CHARACTER()STRING?
S3       1270819  LIST? OR SEQUENCE? OR TABLE? OR MATRIX? OR ARRAY?
S4       3230824  CONVEY? OR DISTRIBUT? OR SEND? OR DELIVER? OR RECEIV? OR M-
                  ULTICAST?
S5       4182708  USED OR UNUSED OR AVAILABL? OR "NOT"()USED OR FRESH?
S6       834031   AUTHENTICAT? OR AUTHORI? OR CONFIRM? OR VERIF? OR RESPONS?
                  OR RESPOND? OR ACKNOWLEDGE? OR ACK
S7       845      S1 AND S2 AND S3 AND S4 AND S5
S8       42187    (POSITION? OR SLOT? OR ROW OR ROWS OR COLUMN OR COLUMNS OR
                  ENTRY OR ENTRIES OR SPACE?)(2N)S3
S9       47       S7 AND S8
S10      22299    S2(2N)S5
S11      66       S7 AND S10
S12      111      S9 OR S11
S13      79       S12 AND IC=H04L
S14      57       S13 NOT AD=19990916:20020916
S15      44       S14 NOT AD=20020916:20050916
S16      44       IDPAT (sorted in duplicate/non-duplicate order)
S17      44       IDPAT (primary/non-duplicate records only)
File 347:JAPIO Nov 1976-2005/Feb(Updated 050606)
         (c) 2005 JPO & JAPIO
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200545
         (c) 2005  Thomson Derwent
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014095264   **Image available**
WPI Acc No: 2001-579478/200165
XRPX Acc No: N01-431302
**A method of managing virtual circuits for a frame relay network includes
a destination data link connection** identifier   used **to look up a
multiplexing value, and a** packet **fragmented and queued for transmission
in a virtual circuit**
Patent Assignee: CISCO TECHNOLOGY INC (CISC-N)
Inventor: SIMON R; VON HAMMERSTEIN C G
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 6292495	B1	20010918	US 9858874	A	19980410	200165	B

Priority Applications (No Type Date): US 9858874 A 19980410
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6292495	B1		24	H04L-012/56	

Abstract (Basic): US 6292495 B1
        NOVELTY - A local frame relay access device (FRAD) **receives** frame
relay **packets** (41). A user selects to bundle bursty data **packets**
under a shared data link connection **identifier** (DCLI). A destination
DCLI in a **received** **packet** is **used** to look up a multiplexing value
in a **table** (43). The **packet** is fragmented with each fragment
including the shared DCLI and the multiplexing value (45), and the
fragments are queued for transmission in a sub-multiplexed permanent
virtual circuit (PVC).
        DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a
frame relay access device including **receive** logic, status message
generation logic and a transmitter.
        USE - The method of managing virtual circuits is **used** for a frame
relay network.
        ADVANTAGE - Local management Interface (LMI) status interference
with voice frames is avoided. The network perceives the shared DCLI as
a single PVC reducing the cost of access and the size of the LMI
message status. The **number** of PVCs is reduced.
        DESCRIPTION OF DRAWING(S) - The figure shows a flowchart
illustrating a method of managing virtual circuits.
        pp; 24 DwgNo 5A/11
Title Terms: METHOD; MANAGE; VIRTUAL; CIRCUIT; FRAME; RELAY; NETWORK;
  DESTINATION; DATA; LINK; CONNECT; IDENTIFY; UP; MULTIPLEX; VALUE; **PACKET**
  ; FRAGMENT; QUEUE; TRANSMISSION; VIRTUAL; CIRCUIT
Derwent Class: W01
International Patent Class (Main): **H04L-012/56**
File Segment: EPI

012874430   **Image available**
WPI Acc No: 2000-046263/200004
XRPX Acc No: N00-035838
Encryption communication system in computer network - delivers
encryption communication control table to **each encryption apparatus on
communication path, for processing communication data**
Patent Assignee: MITSUBISHI ELECTRIC CORP (MITQ)
Number of Countries: 001   Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 11308264	A	19991105	JP 98107808	A	19980417	200004	B

Priority Applications (No Type Date): JP 98107808 A 19980417
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 11308264	A		13	H04L-012/46	

Abstract (Basic): JP 11308264 A
NOVELTY - An encryption communication control **table** containing
control code and encryption key **ID** for searching all communication
paths between communication terminals belonging to designated
communication group, is produced and sent to each encryption apparatus
on communication path. Based on **received** **table** , data processor of
encryption apparatus processes the communication data. DETAILED
DESCRIPTION - An encryption virtual private network (VPN) management
apparatus has a display unit which displays network block diagram
including routes (30,32), communication terminals (31,36-38) and
encryption apparatus (33,34). A selector chooses the communication
area, communication terminal, communication terminal group or
encryption apparatus, to designate a communication group based on the
displayed network block diagram. A setter sets up the key **ID**   **used**
in encryption communication between the communication terminals
belonging to the designated communication group.
USE - In computer network.
ADVANTAGE - Since the address·of communication terminal and
encryption communication information are setup beforehand,
communication failure is minimized greatly. Since the encryption
apparatus holds the encryption communication **table** , transmission of
key search **packet** is eliminated when the communication data from the
communication terminal are **received** . Materializes encryption
communication without causing degradation to·safety of enterprise
network. DESCRIPTION OF DRAWING(S) - The figure shows the block diagram
of network, to which encryption communication system is adopted.
(30,32) Routes; (31,36-38) Communication terminals; (33,37) Encryption
apparatus; (VPN) Encryption virtual private.
Dwg.1/17
Title Terms: ENCRYPTION; COMMUNICATE; SYSTEM; COMPUTER; NETWORK; **DELIVER** ;
ENCRYPTION; COMMUNICATE; CONTROL; **TABLE** ; ENCRYPTION; APPARATUS;
COMMUNICATE; PATH; PROCESS; COMMUNICATE; DATA
Derwent Class: T01; W01
International Patent Class (Main): **H04L-012/46**
International Patent Class (Additional): G06F-013/00; **H04L-009/08** ;
  H04L-009/14 ; **H04L-009/36** ; **H04L-012/28** ; **H04L-012/56** ; **H04L-012/66**
File Segment: EPI

17/5/17   (Item 17 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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relevant - lookup

009172889   **Image available**
WPI Acc No: 1992-300323/199236
XRPX Acc No: N92-229990
    Sequence   number **tracking method for** packet **data communication
    system - rejects** packets **with** sequence   number **outside bounded range
    defined at destination and uses bit map to filter duplicate** sequence
    numbers
Patent Assignee: DIGITAL EQUIP CORP (DIGI)
Inventor: HARVEY G A; SOUZA R J; THOMAS R E; VARGHESE G
Number of Countries: 006 Number of Patents: 006
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 9214327	A1	19920820	WO 92US1023	A	19920207	199236	B
US 5151899	A	19920929	US 91654067	A	19910211	199242	
EP 525174	A1	19930203	EP 92906871	A	19920207	199305	
			WO 92US1023	A	19920207		
JP 5502362	W	19930422	JP 92506648	A	19920207	199321	
			WO 92US1023	A	19920207		
EP 525174	B1	19970115	EP 92906871	A	19920207	199708	
			WO 92US1023	A	19920207		
DE 69216704	E	19970227	DE 616704	A	19920207	199714	
			EP 92906871	A	19920207		
			WO 92US1023	A	19920207		

Priority Applications (No Type Date): US 91654067 A 19910211
Cited Patents: EP 162478; EP 224895; US 4653048
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9214327	A1	E	41	H04L-029/06	
US 5151899	A		18	H04J-003/24	
EP 525174	A1	E	41	H04L-029/06	Based on patent WO 9214327
JP 5502362	W			H04L-012/56	Based on patent WO 9214327
EP 525174	B1	E	23	H04L-029/06	Based on patent WO 9214327

    Designated States (Regional): DE FR GB IT

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 69216704	E			H04L-029/06	Based on patent EP 525174
					Based on patent WO 9214327

Abstract (Basic): WO 9214327 A
    The method tracks **sequence   numbers** for message **packets** in a
packet data transmission system. **Numbers** are assigned in order to a
series of **packets** transmitted from source to destination. At the
destination a bounded **number** range, comprising a fraction of all the
numbers , is defined. **Packets** having **numbers** outside the range are
discarded.
    The destination maintains an indexed bit map representing the
sequence   number of each **received   packet** . The **number** position
in the map is checked for each **received   packet** and any **packet**
whose **number** is already set discarded.
    ADVANTAGE - Minimum computational burden. Speed appropriate for
high performance.
    Dwg.4/12
Title Terms: **SEQUENCE** ; **NUMBER** ; TRACK; METHOD; **PACKET** ; DATA;
  COMMUNICATE; SYSTEM; REJECT; **PACKET** ; **SEQUENCE** ; **NUMBER** ; BOUND; RANGE
  ; DEFINE; DESTINATION; BIT; MAP; FILTER; DUPLICATE; **SEQUENCE** ; **NUMBER**
Derwent Class: T01; W01
International Patent Class (Main): H04J-003/24; **H04L-012/56** ; **H04L-029/06**

File Segment: EPI

DIALOG(R)File 350:Derwent WPIX
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007079821
WPI Acc No: 1987-079818/198711
XRPX Acc No: N87-060357
  **Interconnection of cyclic broadcast networks - uses topological store and
  forward protocol dropping** packets **at drop** listed **trees**
Patent Assignee: BELL COMMUNICATIONS RES (BELL-N); BELL COMMUNIC RES
  (BELL-N)
Inventor: SINCOSKIE D; SINCOSKIE W D
Number of Countries: 013 Number of Patents: 007
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 8701543	A	19870312	WO 86US1206	A	19860530	198711	B
EP 233898	A	19870902	EP 86904496	A	19860530	198735	
JP 62502303	W	19870903	JP 86503591	A	19860530	198741	
US 4706080	A	19871110	US 85769555	A	19850826	198747	
CA 1254984	A	19890530				198926	
EP 233898	B1	19920729	EP 86904496	A	19860530	199231	
			WO 86US1206	A	19860530		
DE 3686254	G	19920903	DE 3686254	A	19860530	199237	
			EP 86904496	A	19860530		
			WO 86US1206	A	19860530		

Priority Applications (No Type Date): US 85769555 A 19850826
Cited Patents: 2.Jnl.Ref; GB 2149625
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 8701543	A	E	29		

    Designated States (National): JP
    Designated States (Regional): AT BE CH DE FR GB IT LU NL SE
EP 233898   A   E
    Designated States (Regional): DE FR GB
US 4706080   A   14
EP 233898   B1 E   16 H04L-012/46   Based on patent WO 8701543
    Designated States (Regional): DE FR GB
DE 3686254   G   H04L-012/46   Based on patent EP 233898
                                       Based on patent WO 8701543

Abstract (Basic): WO 8701543 A
      The method involves transmitting data **packets** over a system
including a **number** of networks interconnected by gateways that
implement drop **list** processing, a set of spanning trees are selected
for the system. An **identifier** is then **conveyed** with a **packet**
indicating one of the trees. The **identifier** is **used** at each gateway
to determine the routing. An acknowledgement **packet** may be returned
over the selected tree.
      Each gateway may be configured with drop **lists** for the trees, and
at each gateway, the source address, destination address and the
spanning tree **identifier** are determined, the source address being
inserted into the drop **list** . The **packet** is dropped if the tree is
not processed at the gateway or the destination address is in the drop
list .
      USE - Interconnecting. Local area networks.
      1/11
Title Terms: INTERCONNECT; CYCLIC; BROADCAST; NETWORK; TOPOLOGICAL; STORAGE
  ; FORWARD; PROTOCOL; DROP; **PACKET** ; DROP; **LIST** ; TREE
Derwent Class: W01
International Patent Class (Main): **H04L-012/46**
International Patent Class (Additional): G08B-005/00; H04J-003/24;
  H04L-011/16 ; **H04L-012/56** ; H04Q-003/42; H04Q-005/00
File Segment: EPI

004667508
WPI Acc No: 1986-170850/198627
XRPX Acc No: N86-127558
  Transmitting sequence   numbers **of information** packets -
  acknowledging correctly received   packets **by piggy-backing their**
  sequence numbers **on** packets **being transmitted**
Patent Assignee: NORTHERN TELECOM LTD (NELE)
Inventor: BAKER D M; DRYNAN D S
Number of Countries: 015 Number of Patents: 008
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 186343	A	19860702	EP 85308798	A	19851203	198627	B
PT 81764	A	19860611				198629	
JP 61161847	A	19860722	JP 85299791	A	19851228	198635	
US 4617657	A	19861014	US 84688110	A	19841231	198644	
CA 1220830	A	19870421				198720	
EP 186343	B	19920219				199208	
DE 3585407	G	19920326				199214	
JP 6205045	A	19940722	JP 85299791	A	19851228	199434	
			JP 93142487	A	19851228		

Priority Applications (No Type Date): CA 471145 A 19841228; US 84688110 A
  19841231
Cited Patents: 4.Jnl.Ref; A3...8804; EP 46831; JP 59178831; No-SR.Pub
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 186343		A	E	21	

  Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE

EP 186343		B			

  Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE

JP 6205045		A		19 H04L-012/56	Div ex application JP 85299791

Abstract (Basic): EP 186343 A
     Each **packet** has control and information fields. The control field
  includes a **sequence** **number** of the **packet** . The **sequence** **number**
  of a **packet** **received** in an opposite direction of transmission is
  selectively transmitted in the **packet** to acknowledge correct receipt
  of that **packet** . In the control field of each **packet** is transmitted
  a bit whose state indicates the presence or absence of the **sequence**
  number of a **received** **packet** being acknowledged.
     Acknowledgements can also be transmitted separately in control
  packets having no information field. Each acknowledgement consists of
  not only the **sequence** **number** of a correctly **received** **packet** but
  also the acknowledgement status of a **number** of preceding **packets** so
  that these can be negatively acknowledged if necessary. The **sequence**
  number size is determined on set-up of the link depending on the
  transmission speed and round-trip delay.
     ADVANTAGE - Systems having long round-trip delays e.g. satellite
  links, and/or high transmission rates. Both long and short **packets**
  can be handled efficiently and imbalanced information rates in the two
  directions can be accommodated. A single procedure can be **used**
  consistently on many varied **packet** data transmission systems.
Title Terms: TRANSMIT; **SEQUENCE** ; **NUMBER** ; INFORMATION; **PACKET** ;
  ACKNOWLEDGE; CORRECT; **RECEIVE** ; **PACKET** ; BACKING; **SEQUENCE** ; **NUMBER** ;
  PACKET ; TRANSMIT
Index Terms/Additional Words: **SATELLITE** ; **RADIO** ; **RELAY**
Derwent Class: W01; W02
International Patent Class (Main): **H04L-012/56**
International Patent Class (Additional): **H04L-001/16** ; **H04L-005/14** ;
  H04L-013/00 ; **H04L-029/08** ; H04Q-011/04
File Segment: EPI